TYPE I
AERIAL RECONNAISSANCE

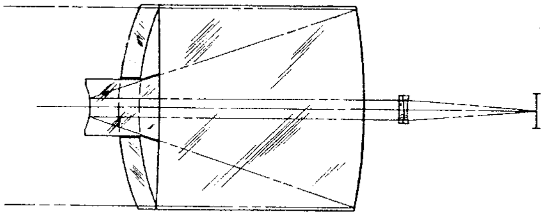
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Solid Catadioptric Lens

FOCAL LENGTH 105 in.	RELATIVE APERTURE f/35.0	FORMAT 0.6 in. Diameter	MANUFACTURER American Optical Co.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 105.0 in.	TRANSMITTANCE
BACK FOCAL DISTANCE 2.262 in.	COLOR CORRECTION 4861-6563Å
FRONT VERTEX BACK FOCAL DISTANCE 13.937 in.	DISTORTION *(Maximum)* 0.53%
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)* 3.00 in.
SEMI-FIELD ANGLE 0.164°	OVERALL LENGTH 6.841 in.
RELATIVE APERTURE f/35.0	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
105 in.	f/35.0	0.6 in. Diameter	American Optical Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)																		

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

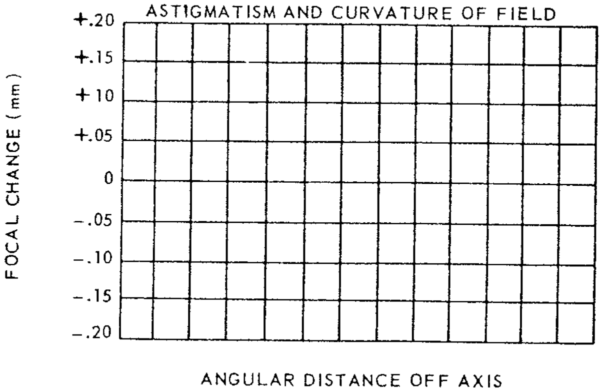
FILM ______ TARGET CONTRAST ______ FILTER ______

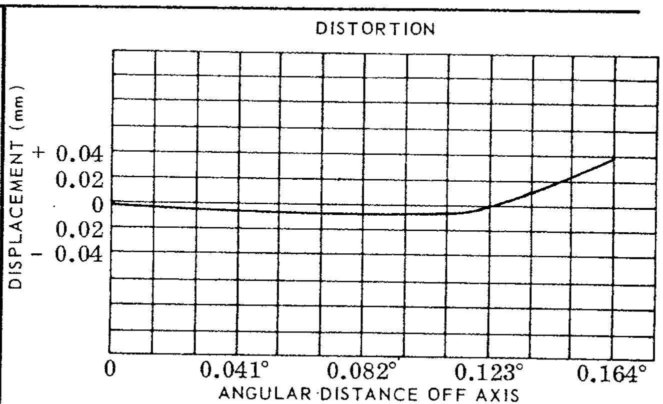
RADIAL																		
TANGENTIAL																		

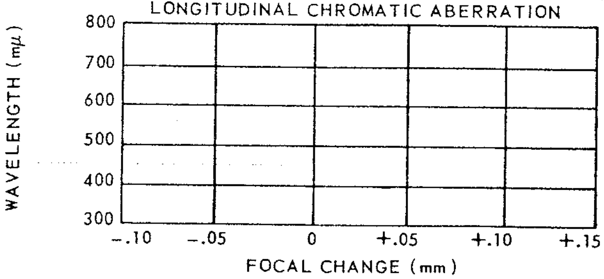
AWAR ______ L/mm

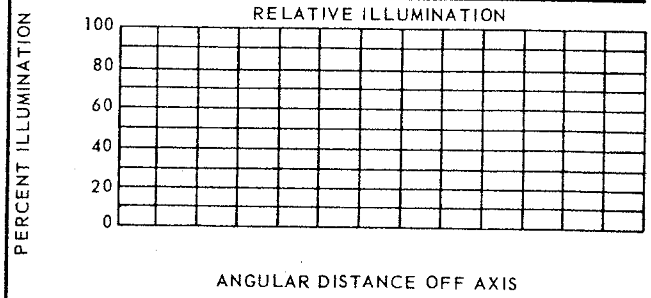
VISUAL ______ TARGET CONTRAST ______ FILTER ______

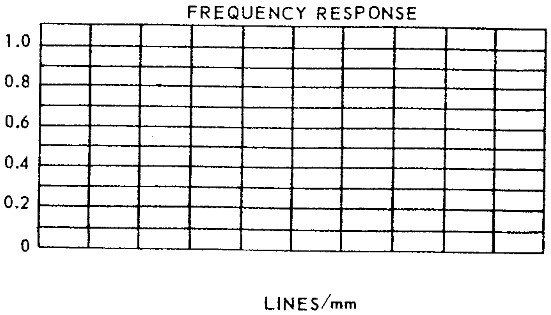
RADIAL																		
TANGENTIAL																		

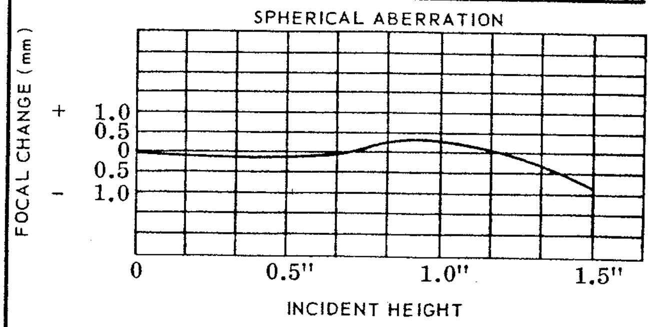










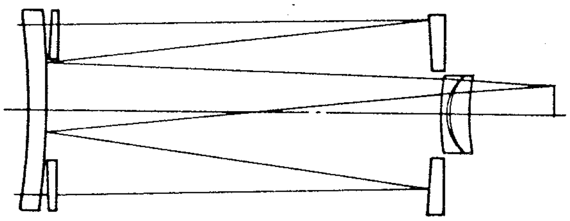


LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME RECON 100	
FOCAL LENGTH 20 in.	RELATIVE APERTURE f/4. 0	FORMAT (0. 79 in.) 20 mm Diameter	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS Current

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 20 in. (500 mm)	TRANSMITTANCE 71%
BACK FOCAL DISTANCE 1. 18 in. (30 mm)	COLOR CORRECTION 4000-7000 Å
FRONT VERTEX BACK FOCAL DISTANCE 8. 15 in. (210 mm)	DISTORTION *(Maximum)* 0.2%
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE 1°	OVERALL LENGTH 8. 15 in. (210 mm)
RELATIVE APERTURE f/4. 0	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
20 in.	f/4.0	(0.79 in.) 20 mm Diameter	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)																		

FILM ____ TARGET CONTRAST ____ FILTER ____

RADIAL																		
TANGENTIAL																		

AWAR ____ L/mm

FILM ____ TARGET CONTRAST ____ FILTER ____

RADIAL																		
TANGENTIAL																		

AWAR ____ L/mm

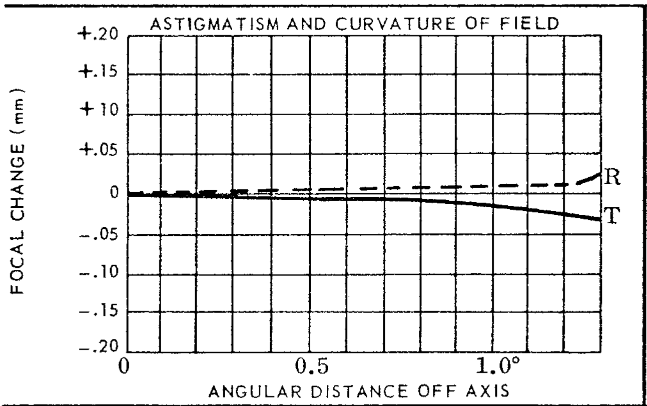
FILM ____ TARGET CONTRAST ____ FILTER ____

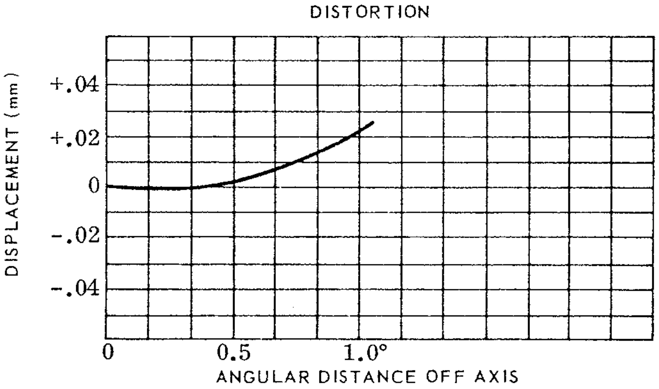
RADIAL																		
TANGENTIAL																		

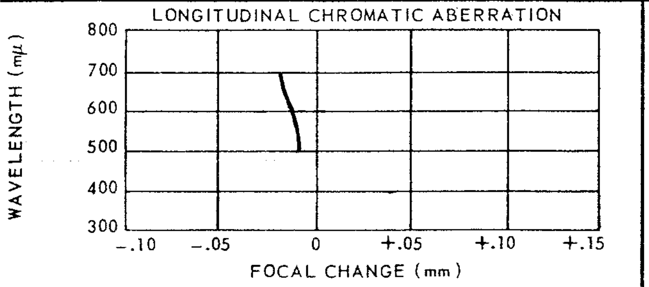
AWAR ____ L/mm

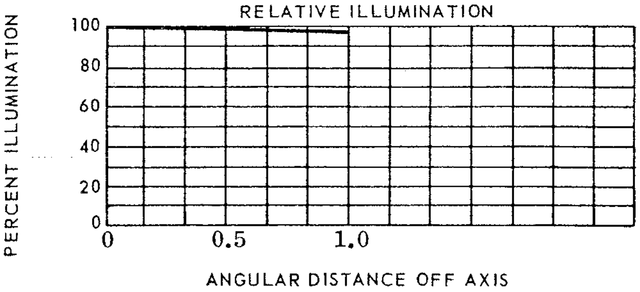
VISUAL ____ TARGET CONTRAST ____ FILTER ____

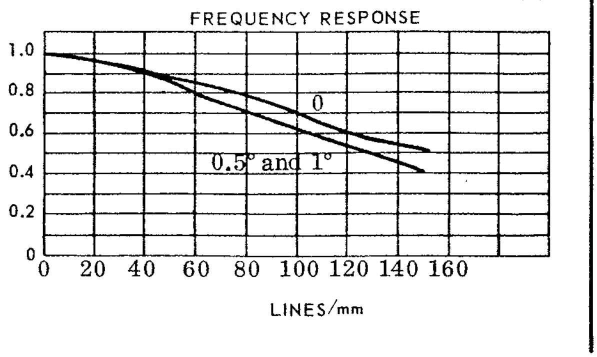
RADIAL																		
TANGENTIAL																		

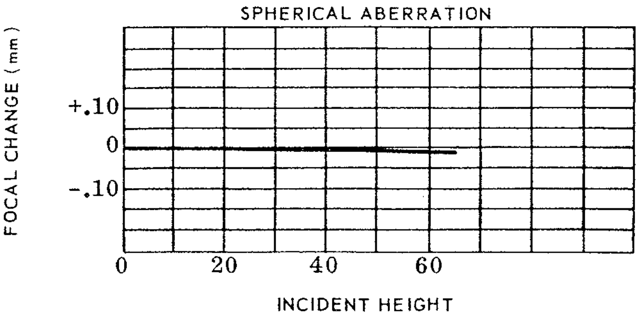

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

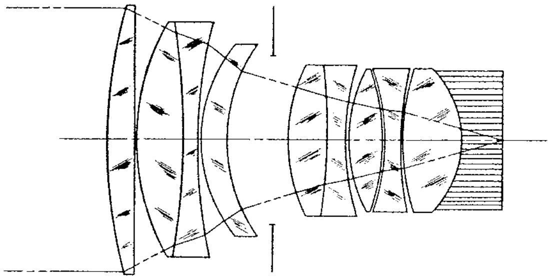
LENS DATA INFORMATION SHEET *(Reference MIL-STD-150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Hytar

FOCAL LENGTH 1.715 in.	RELATIVE APERTURE f/0.8	FORMAT 1.2 in. Diameter	MANUFACTURER American Optical Co.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 1.715 in. (43.56 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 0	COLOR CORRECTION 4358-5893Å
FRONT VERTEX BACK FOCAL DISTANCE 3.407 in.	DISTORTION *(Maximum)* 5.4%
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)* 7.5 in.
SEMI-FIELD ANGLE 20°	OVERALL LENGTH 6.125 in.
RELATIVE APERTURE f/0.8	WEIGHT 8 lbs

REMARKS:

FOCAL LENGTH 1.715 in.	RELATIVE APERTURE f/0.8	FORMAT 1.2 in. Diameter	MANUFACTURER American Optical Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0				5				10				15				20	

FILM ____ TARGET CONTRAST ____ FILTER ____

RADIAL																		
TANGENTIAL																		

AWAR 57 L/mm

FILM ____ TARGET CONTRAST ____ FILTER ____

RADIAL																		
TANGENTIAL																		

AWAR ____ L/mm

FILM ____ TARGET CONTRAST ____ FILTER ____

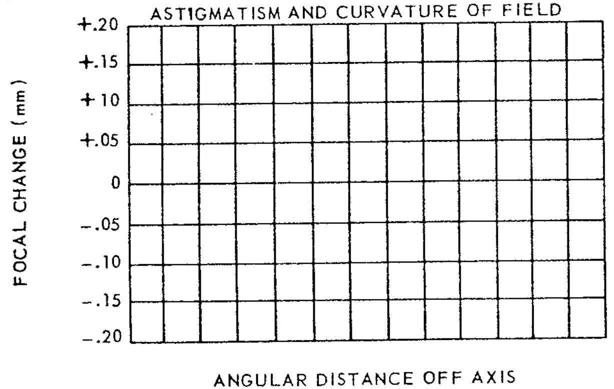
RADIAL																		
TANGENTIAL																		

AWAR ____ L/mm

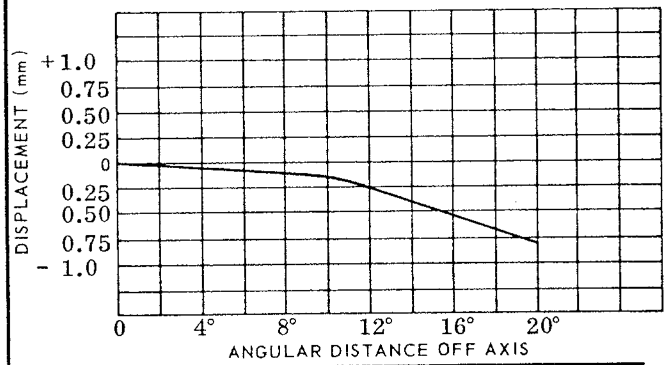
VISUAL ____ TARGET CONTRAST High 2.0 FILTER KG3 & W-78AA

RADIAL	100				100				82				38				14	
TANGENTIAL	100				100				82				38				14	

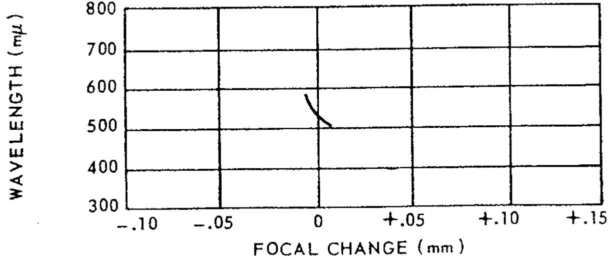
ASTIGMATISM AND CURVATURE OF FIELD



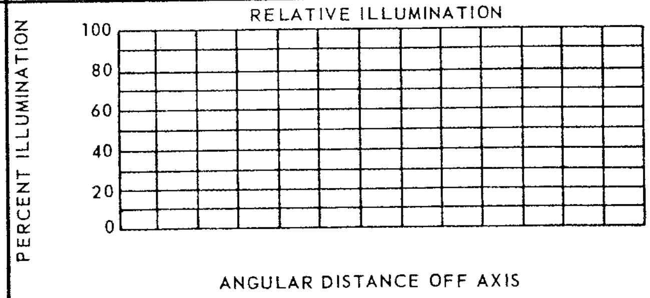
DISTORTION



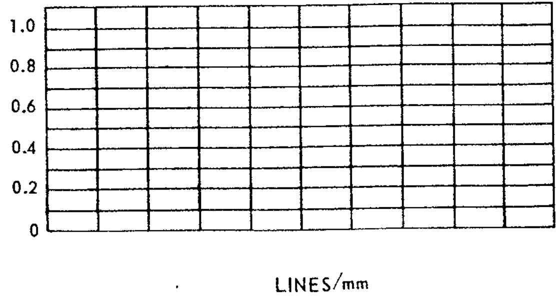
LONGITUDINAL CHROMATIC ABERRATION



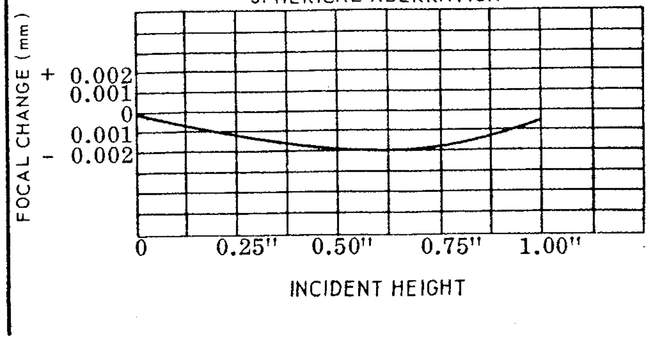
RELATIVE ILLUMINATION



FREQUENCY RESPONSE



SPHERICAL ABERRATION



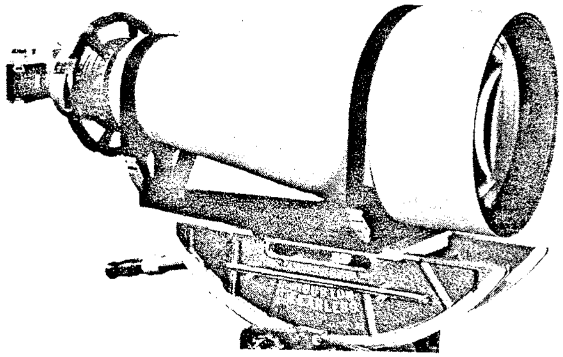
LENS DATA INFORMATION SHEET *(Reference MIL-STD-150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

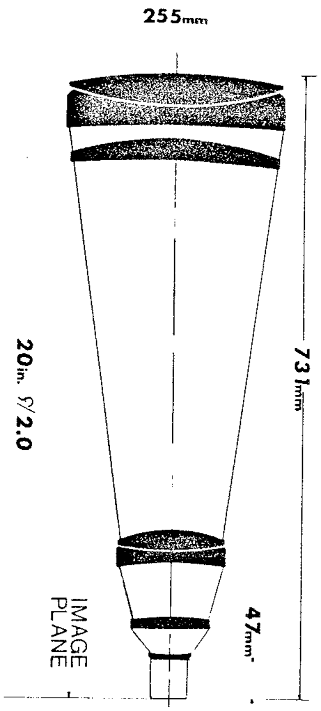
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 20 in.	RELATIVE APERTURE f/2.0	FORMAT 24 mm x 36 mm	MANUFACTURER Bausch & Lomb Inc.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 20 in. (506.6 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 1.84 in. (46.8 mm)	COLOR CORRECTION 4861-6563Å
FRONT VERTEX BACK FOCAL DISTANCE 30.5 in. (774.9 mm)	DISTORTION *(Maximum)* -.00086 mm
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)* 10 in. (255 mm)
SEMI-FIELD ANGLE 2.5°	OVERALL LENGTH 28.7 in. (731 mm)
RELATIVE APERTURE f/2	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
20 in.	f/2. 0	24 mm x 36 mm	Bausch & Lomb Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0					1. 7				2. 5								

FILM Plus X TARGET CONTRAST 1000:1 FILTER ________

AVERAGE RADIAL AND TANGENTIAL	58					50				140								

AWAR ________ L/mm

FILM Microfile TARGET CONTRAST 1000:1 FILTER ________

AVERAGE RADIAL AND TANGENTIAL	140					140				140								

AWAR ________ L/mm

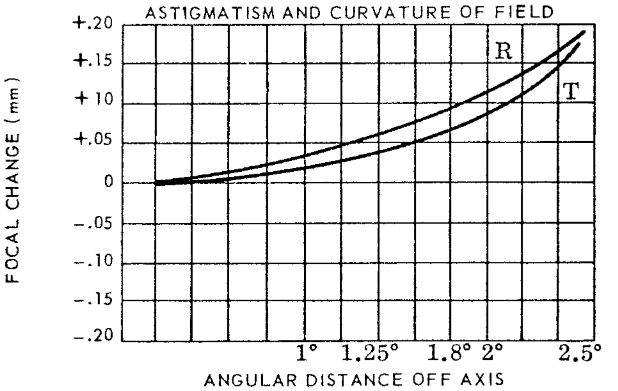
FILM ________ TARGET CONTRAST ________ FILTER ________

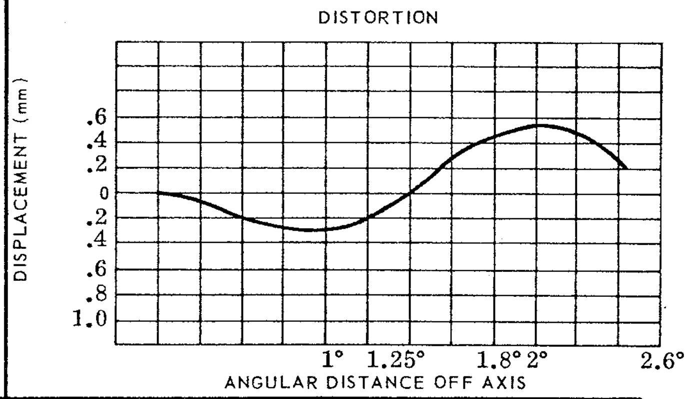
AVERAGE RADIAL AND TANGENTIAL																		

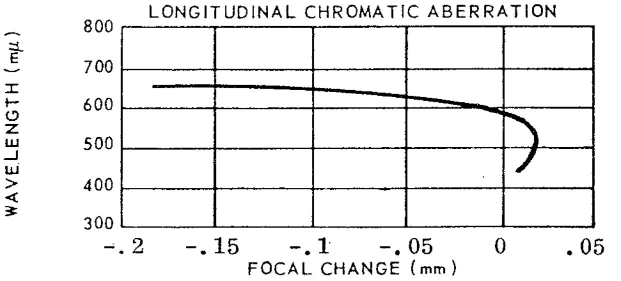
AWAR ________ L/mm

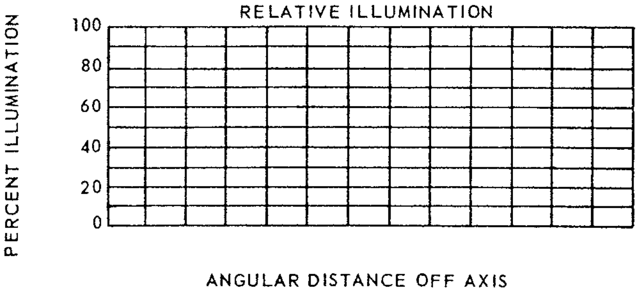
VISUAL ________ TARGET CONTRAST 1000:1 FILTER ________

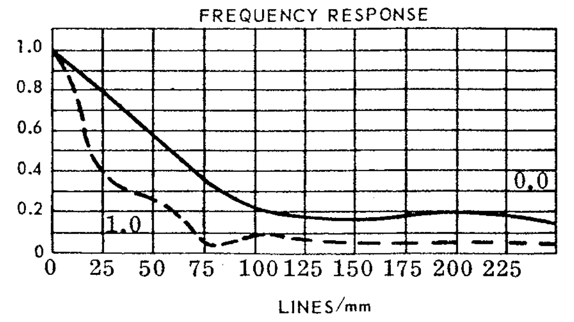
RADIAL	550					550				320								
TANGENTIAL																		

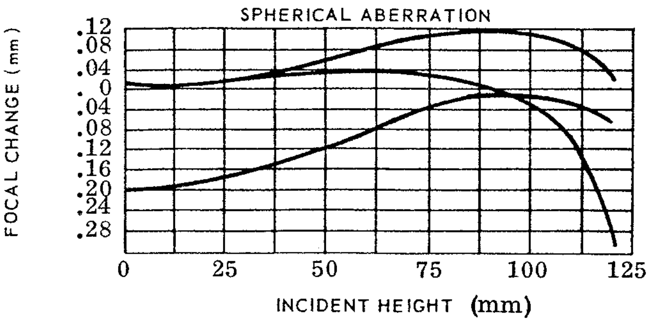












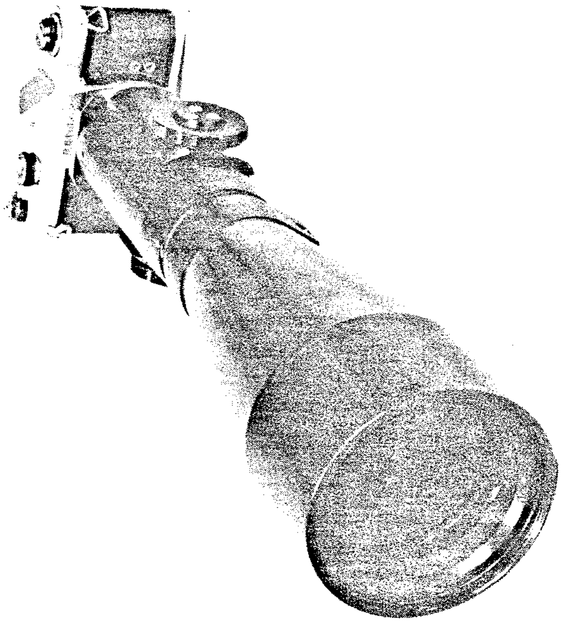
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

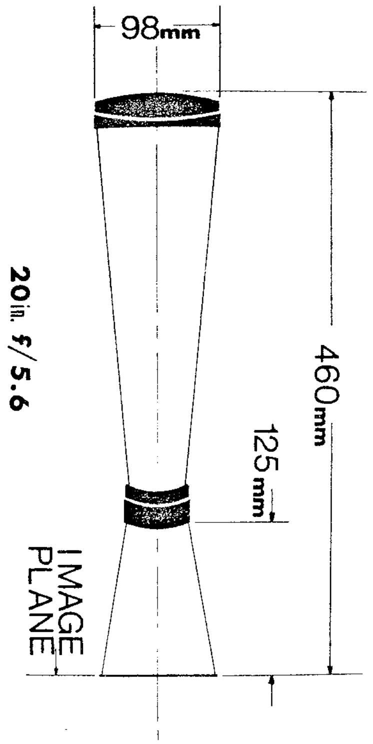
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 20 in.	RELATIVE APERTURE f/5. 6	FORMAT 24 mm x 36 mm	MANUFACTURER Bausch & Lomb

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 20 in. (510. 2 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 5 in. (127. 2 mm)	COLOR CORRECTION 4861 - 6563Å
FRONT VERTEX BACK FOCAL DISTANCE 18. 54 in. (461. 9 mm)	DISTORTION *(Maximum)* -. 0067 mm
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)* 4 in. (98 mm)
SEMI–FIELD ANGLE 2. 5°	OVERALL LENGTH 2 in. (. 460 mm)
RELATIVE APERTURE f/5	WEIGHT 10 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
20 in.	f/5.6	24 mm x 36 mm	Bausch & Lomb Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0				1.7				2.5									

FILM Plus X TARGET CONTRAST 1000:1 FILTER

AVERAGE RADIAL AND TANGENTIAL	70				60				55									

AWAR ______ L/mm

FILM Microfile TARGET CONTRAST 1000:1 FILTER

AVERAGE RADIAL AND TANGENTIAL	160				160				145									

AWAR ______ L/mm

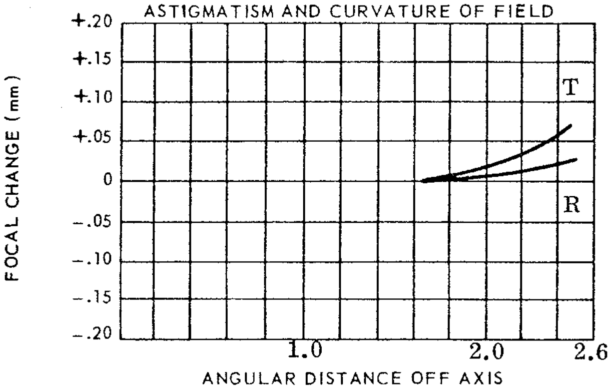
FILM Plus X TARGET CONTRAST 2:1 FILTER

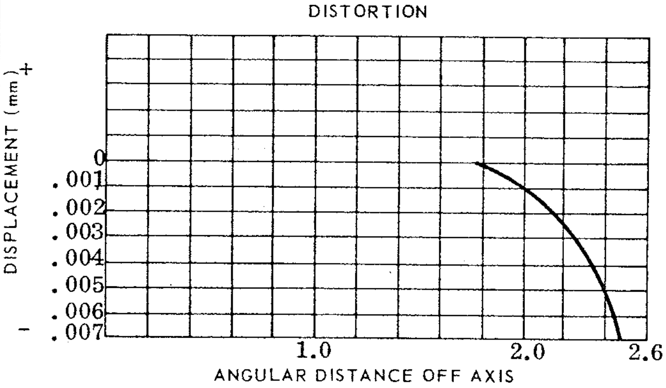
AVERAGE RADIAL AND TANGENTIAL	30				30				30									

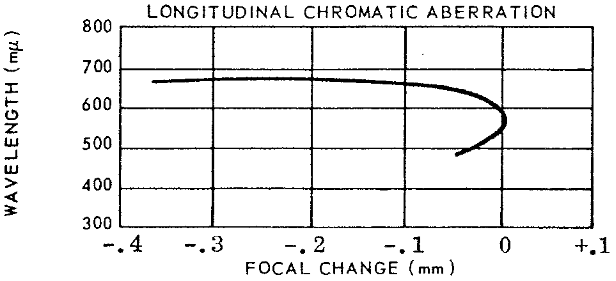
AWAR ______ L/mm

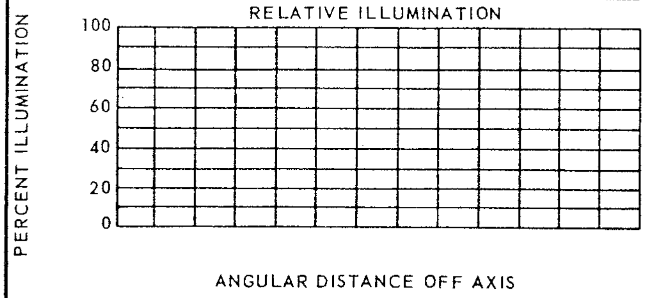
VISUAL ______ TARGET CONTRAST ______ FILTER ______

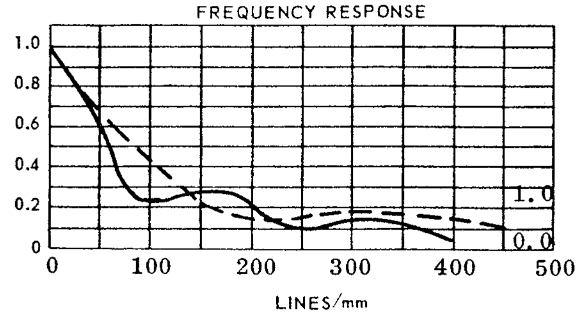
RADIAL																		
TANGENTIAL																		

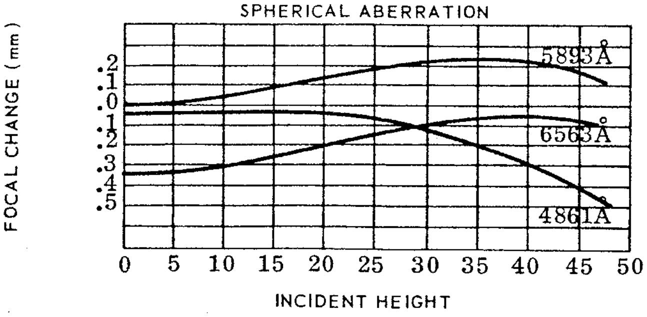

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE

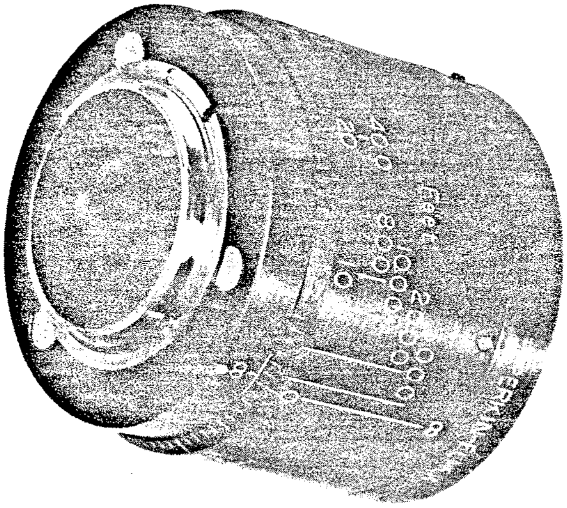

SPHERICAL ABERRATION

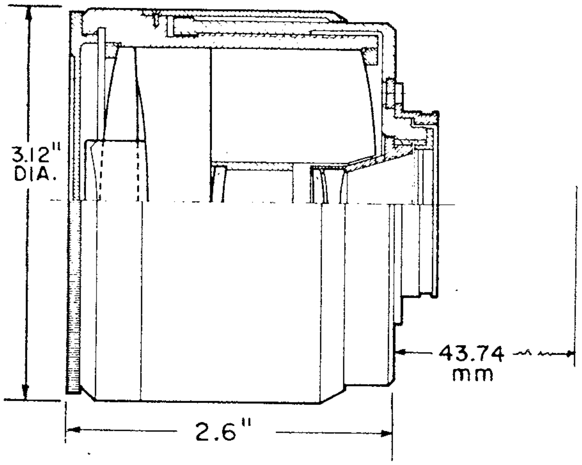
LENS DATA INFORMATION SHEET

(Reference MIL–STD–150A for definition of terms and methods of measurement)

DATE 15 Sept. 1967			
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME RECON 200	
FOCAL LENGTH 26 in.	RELATIVE APERTURE f/12.0	FORMAT 35 mm film (24mm x 36mm)	MANUFACTURER Perkin Elmer Corp.
STOCK NO.	SPECIFICATION NO.	STATUS Current	

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 26 in. (665 mm)	TRANSMITTANCE 70%
BACK FOCAL DISTANCE 2.83 in. (72 mm)	COLOR CORRECTION 4000 - 8000 Å
FRONT VERTEX BACK FOCAL DISTANCE 4.1 in (105 mm)	DISTORTION *(Maximum)* .55 mm
FLANGE FOCAL DISTANCE 2.05 in (54 mm)	LENS CELL DIAMETER *(Maximum)* 3.12 in.
SEMI-FIELD ANGLE 1.5°	OVERALL LENGTH 2.9 in. (74.5 mm)
RELATIVE APERTURE f/12	WEIGHT 1.64 lbs.

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
26 in.	f/12.0	35 mm film (24 mm x 36 mm)	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)																		

FILM ____________ TARGET CONTRAST ________ FILTER ________

RADIAL																		
TANGENTIAL																		

AWAR
________ L/mm

FILM ____________ TARGET CONTRAST ________ FILTER ________

RADIAL																		
TANGENTIAL																		

AWAR
________ L/mm

FILM ____________ TARGET CONTRAST ________ FILTER ________

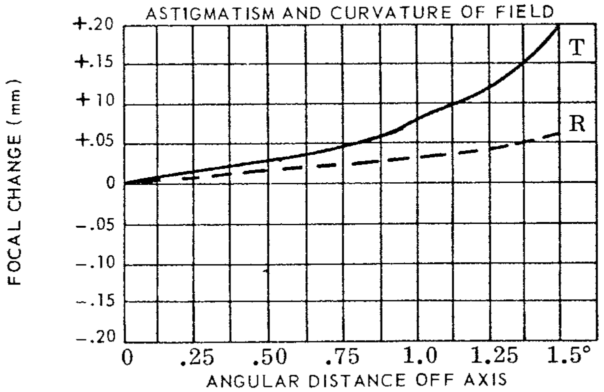
RADIAL																		
TANGENTIAL																		

AWAR
________ L/mm

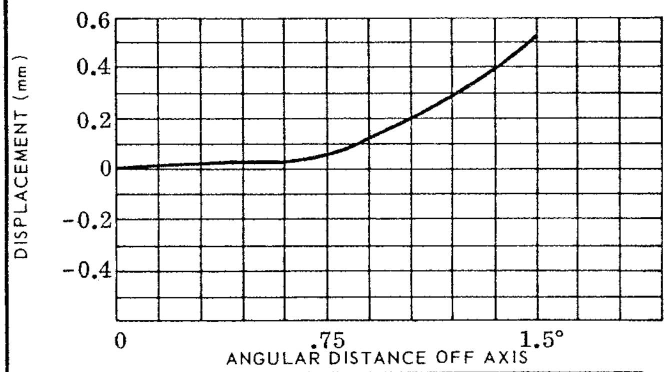
VISUAL ____________ TARGET CONTRAST ________ FILTER ________

RADIAL																		
TANGENTIAL																		

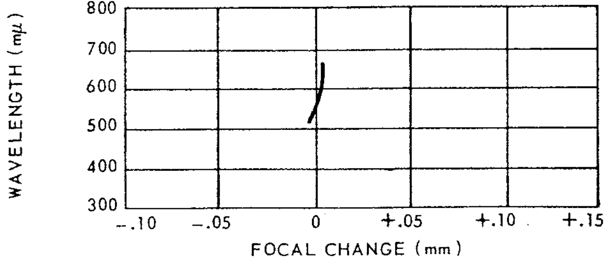
ASTIGMATISM AND CURVATURE OF FIELD



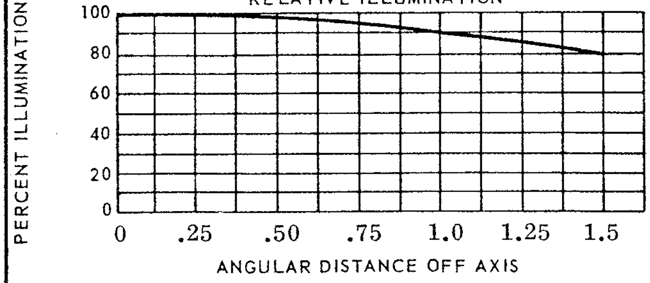
DISTORTION



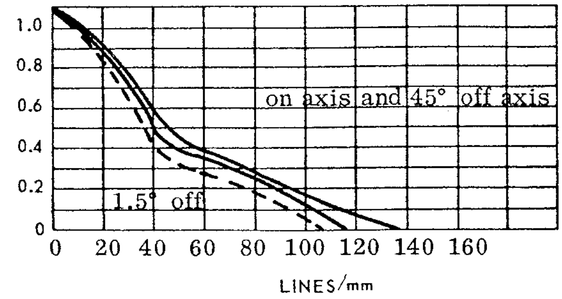
LONGITUDINAL CHROMATIC ABERRATION



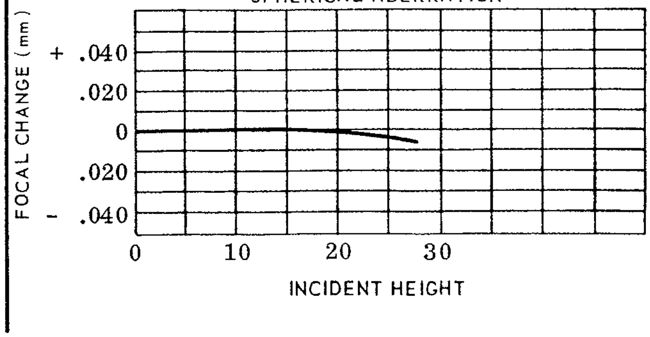
RELATIVE ILLUMINATION



FREQUENCY RESPONSE



SPHERICAL ABERRATION



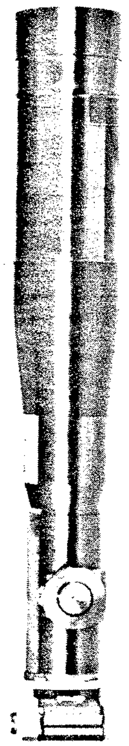
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

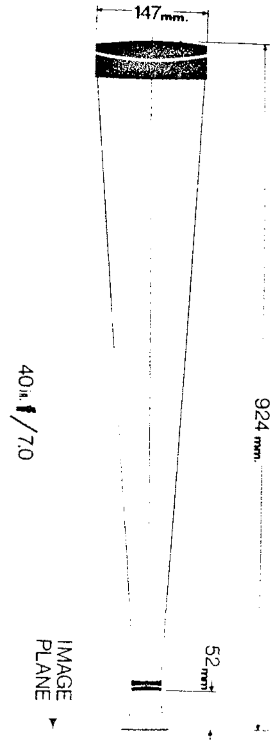
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 40 in.	RELATIVE APERTURE f/7.0	FORMAT 24 mm x 36 mm	MANUFACTURER Bausch & Lomb Inc.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 40 in. (1017.9 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 2 in. (50.8 mm)	COLOR CORRECTION 4681-6563Å
FRONT VERTEX BACK FOCAL DISTANCE 36.4 in. (925.1 mm)	DISTORTION *(Maximum)* .002 mm
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)* 5.78 in. (147 mm)
SEMI-FIELD ANGLE 1.3°	OVERALL LENGTH 36.4 in. (924 mm)
RELATIVE APERTURE f/7.0	WEIGHT 15 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
40 in.	f/7.0	24 mm x 36 mm	Bausch & Lomb Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0				.9					1.3								

FILM Plus X TARGET CONTRAST 1000:1 FILTER

AVERAGE RADIAL AND TANGENTIAL	60				60					50								

AWAR ______ L/mm

FILM Microfile TARGET CONTRAST 1000:1 FILTER

AVERAGE RADIAL AND TANGENTIAL	120				120					90								

AWAR ______ L/mm

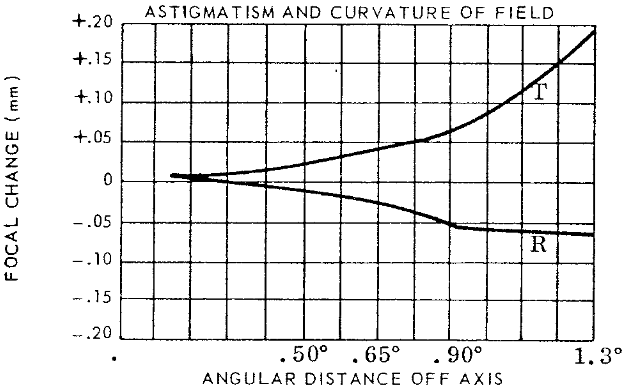
FILM ______ TARGET CONTRAST ______ FILTER ______

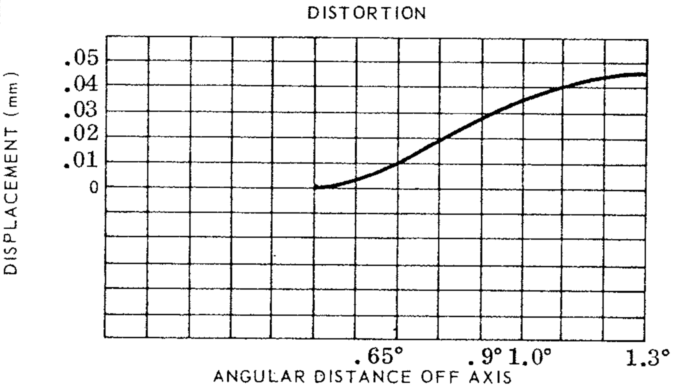
AVERAGE RADIAL AND TANGENTIAL																		

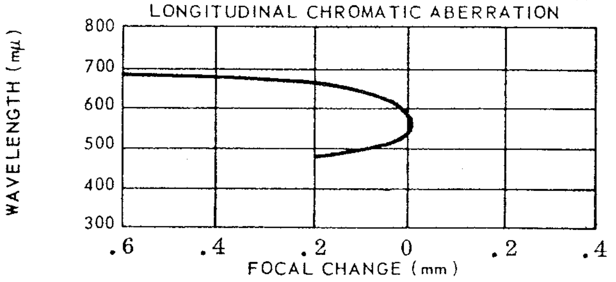
AWAR ______ L/mm

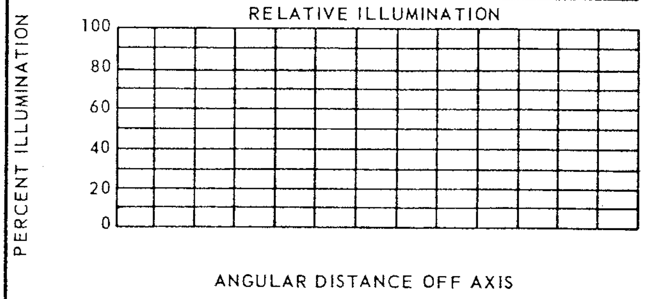
VISUAL ______ TARGET CONTRAST ______ FILTER ______

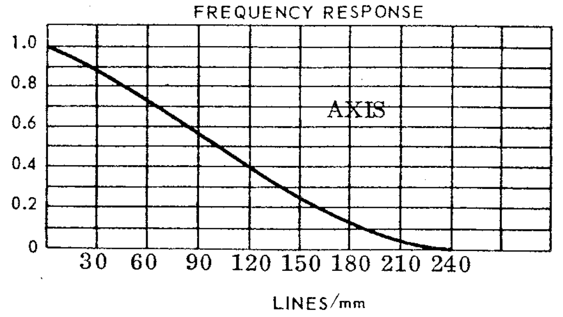
RADIAL																		
TANGENTIAL																		

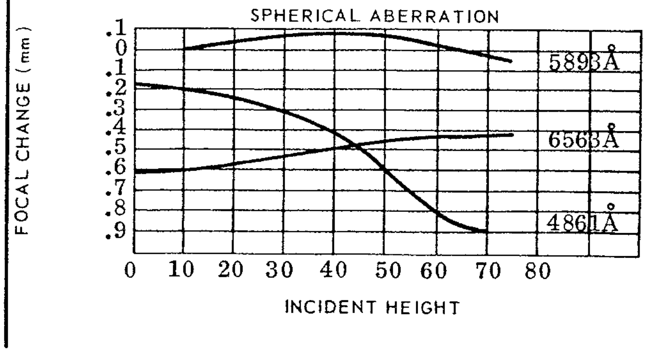

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE

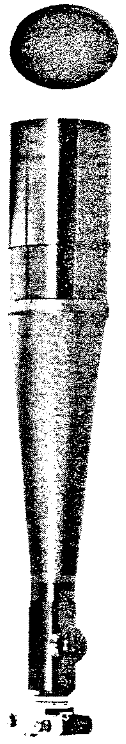

SPHERICAL ABERRATION

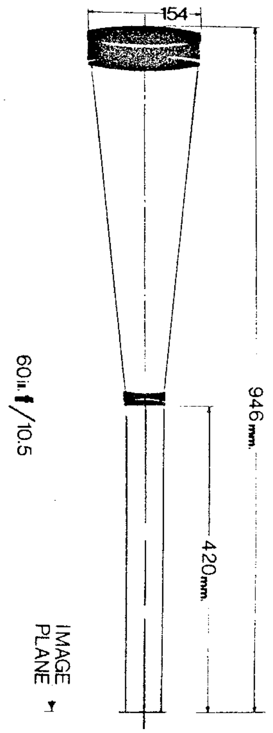
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME	
FOCAL LENGTH 60 in.	RELATIVE APERTURE f/10.5	FORMAT 24 mm x 36 mm	MANUFACTURER Bausch & Lomb Inc.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 60 in. (1524.5 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 16.3 in. (415.8 mm)	COLOR CORRECTION 4861-6563Å
FRONT VERTEX BACK FOCAL DISTANCE 37.1 in. (943.4 mm)	DISTORTION *(Maximum)* .012 mm
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)* 6.06 in. (154 mm)
SEMI-FIELD ANGLE .81°	OVERALL LENGTH 37.2 in. (946 mm)
RELATIVE APERTURE f/10.5	WEIGHT 15 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
60 in.	f/10.5	24 mm x 36 mm	Bausch & Lomb Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0				.5				.81									

FILM Plus X TARGET CONTRAST 1000:1 FILTER ____

AVERAGE RADIAL AND TANGENTIAL	40				35				35									

AWAR ____ L/mm

FILM Microfile TARGET CONTRAST 1000:1 FILTER ____

AVERAGE RADIAL AND TANGENTIAL	80				75				75									

AWAR ____ L/mm

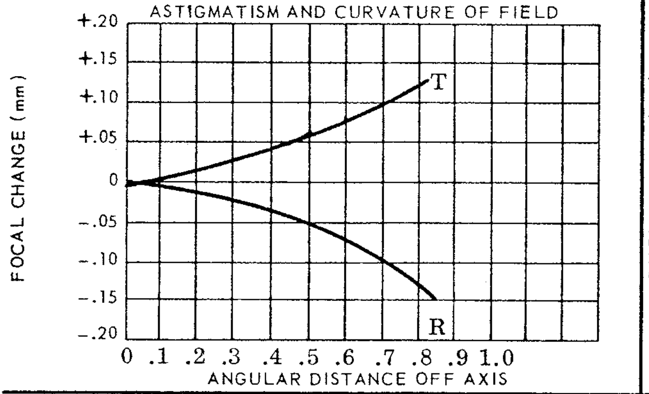
FILM ____ TARGET CONTRAST ____ FILTER ____

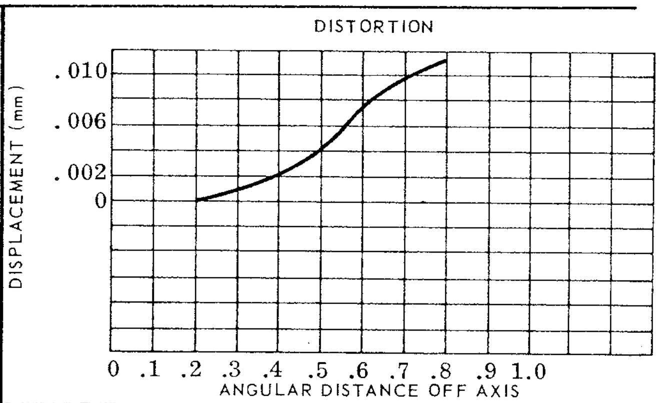
AVERAGE RADIAL AND TANGENTIAL																		

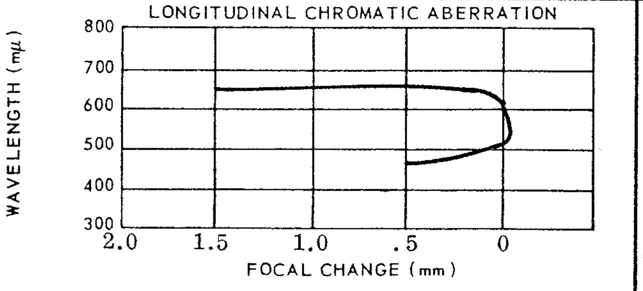
AWAR ____ L/mm

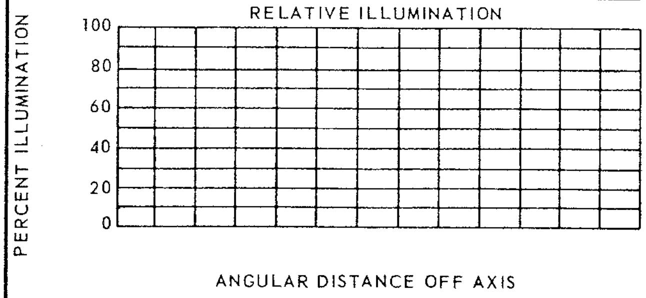
VISUAL ____ TARGET CONTRAST 1000:1 FILTER ____

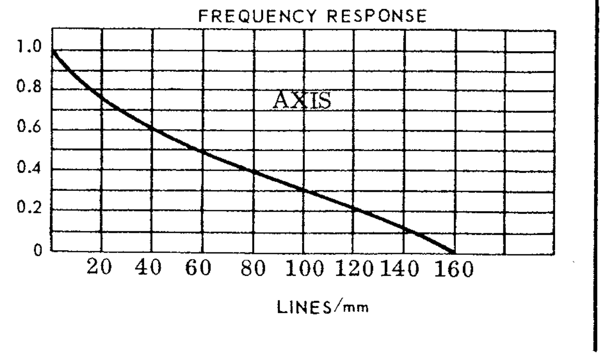
RADIAL	140				140				140									
TANGENTIAL																		

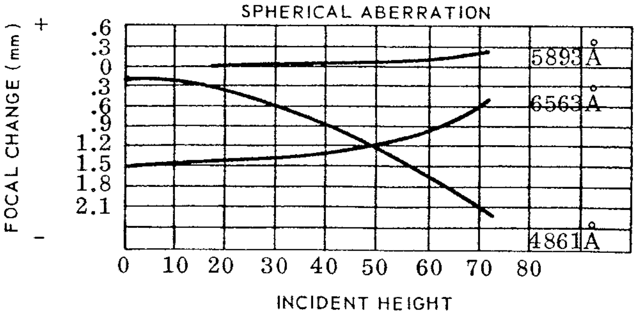

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

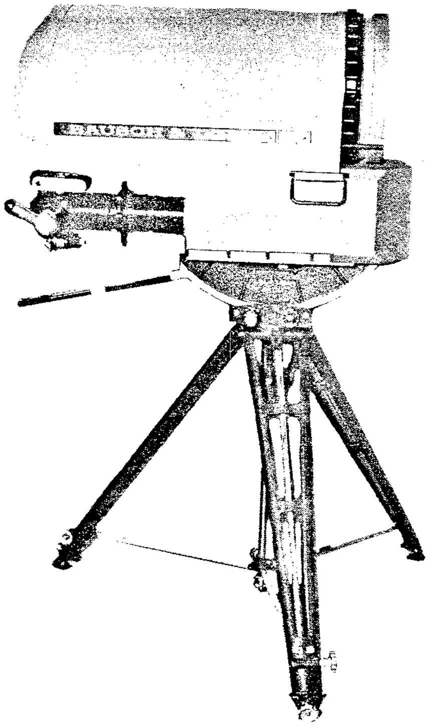
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

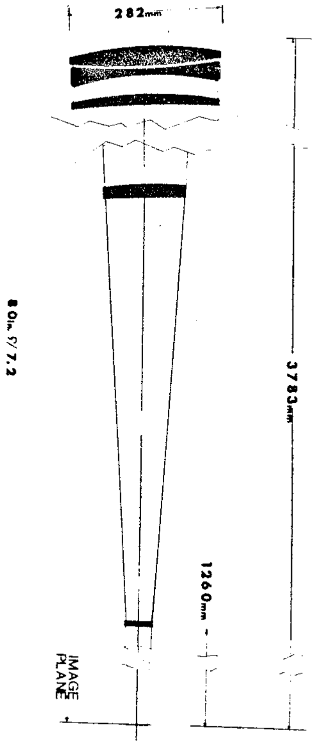
TYPE (MIL–STD–150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 80 in.	RELATIVE APERTURE f/7.2	FORMAT 24 mm x 36 mm	MANUFACTURER Bausch & Lomb Inc.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 80 in. (2007.5 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 4.76 in. (120.9 mm)	COLOR CORRECTION 4861 - 6563Å
FRONT VERTEX BACK FOCAL DISTANCE 105.4 in. (2687.8 mm)	DISTORTION *(Maximum)* .00195 mm
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)* 11.10 in. (282 mm)
SEMI–FIELD ANGLE .61°	OVERALL LENGTH
RELATIVE APERTURE f/7.2	WEIGHT 150 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
80 in.	f/7.2	24 mm x 36 mm	Bausch & Lomb Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0				.4				.61									

FILM TRI-X TARGET CONTRAST 1000:1 FILTER

AVERAGE RADIAL AND TANGENTIAL	40				35				35									

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

AVERAGE RADIAL AND TANGENTIAL																		

AWAR ______ L/mm

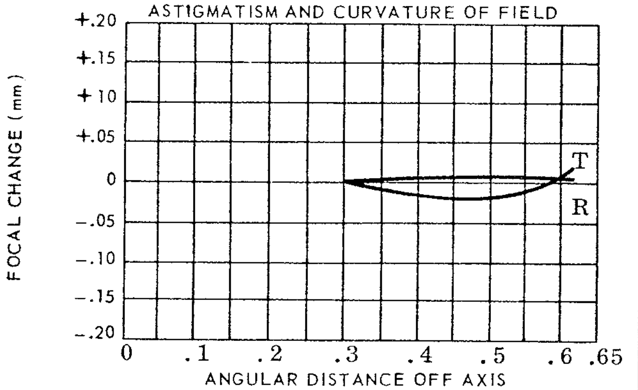
FILM ______ TARGET CONTRAST ______ FILTER ______

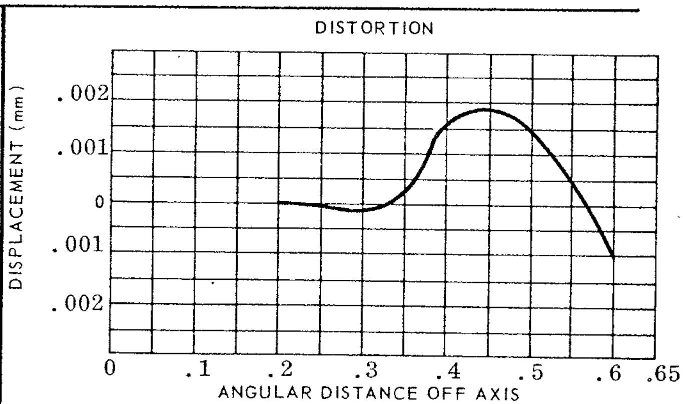
AVERAGE RADIAL AND TANGENTIAL																		

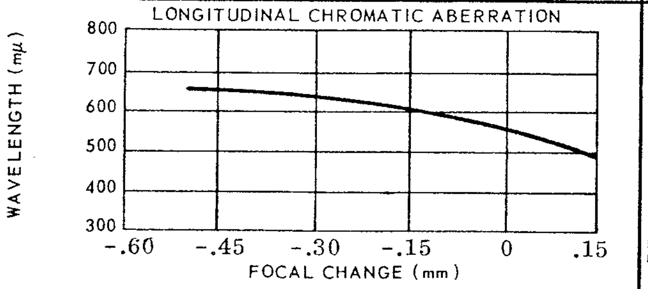
AWAR ______ L/mm

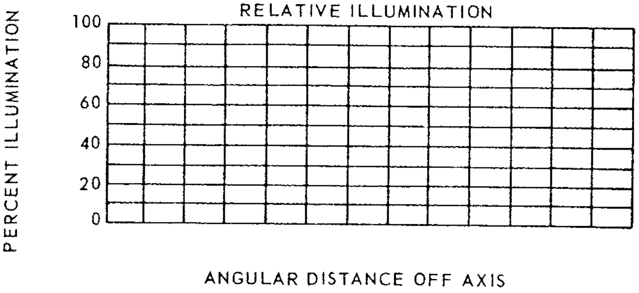
VISUAL ______ TARGET CONTRAST 1000:1 FILTER ______

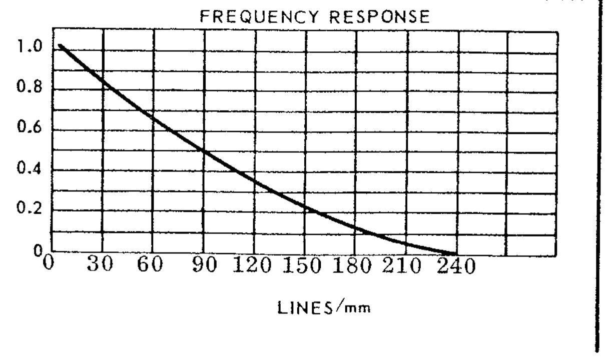
RADIAL	180				170				170									
TANGENTIAL																		

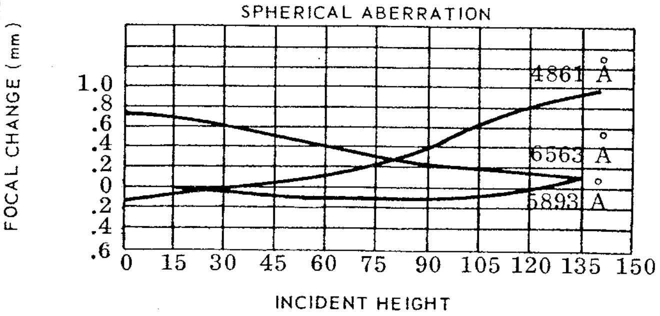

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

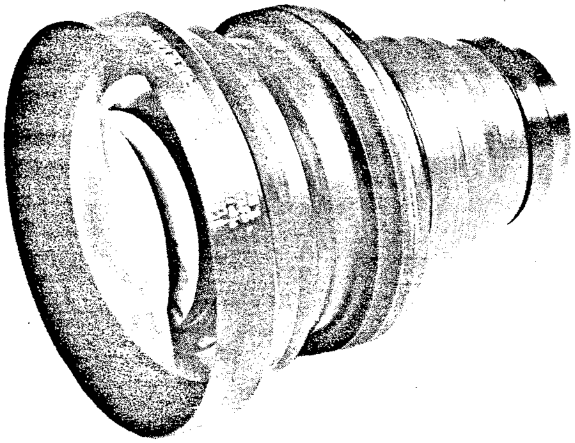
LENS DATA INFORMATION SHEET *(Reference MIL-STD-150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

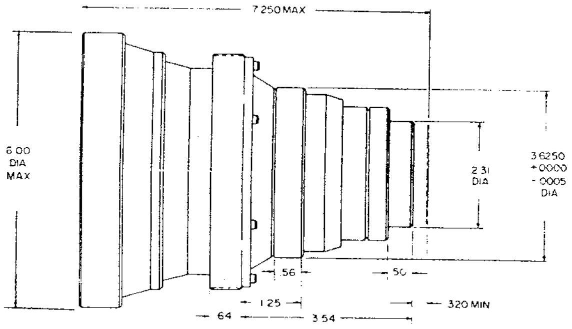
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME LUX 240

FOCAL LENGTH 4.5 in.	RELATIVE APERTURE f/.95	FORMAT (1.58 in.) 40 mm Diameter	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS Current

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 4.5 in. (114.3 mm)	TRANSMITTANCE 82%
BACK FOCAL DISTANCE .47 in. (11.9 mm)	COLOR CORRECTION 4861-6563 Å
FRONT VERTEX BACK FOCAL DISTANCE 7.22 in. (183.4 mm)	DISTORTION *(Maximum)* 0.5%
FLANGE FOCAL DISTANCE 3.86 in. (98.1 mm)	LENS CELL DIAMETER *(Maximum)* 6.0 in. (152.4 mm)
SEMI-FIELD ANGLE 9°	OVERALL LENGTH 6.93 in. (176.0 mm)
RELATIVE APERTURE f/.95	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
4.5 in.	f/.95	(1.58 in.) 40 mm Diameter	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5.0	7.5	9.0	10.0												

FILM SO 243 TARGET CONTRAST High FILTER

RADIAL	106	106	106	106	95	95												
TANGENTIAL	106	106	106	106	95	60												

AWAR 101 L/mm

FILM TARGET CONTRAST FILTER

RADIAL																		
TANGENTIAL																		

AWAR L/mm

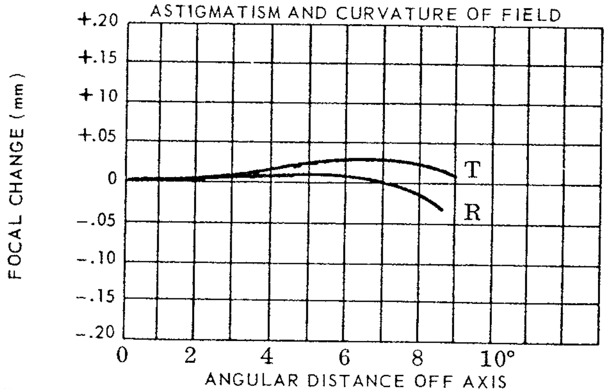
FILM TARGET CONTRAST FILTER

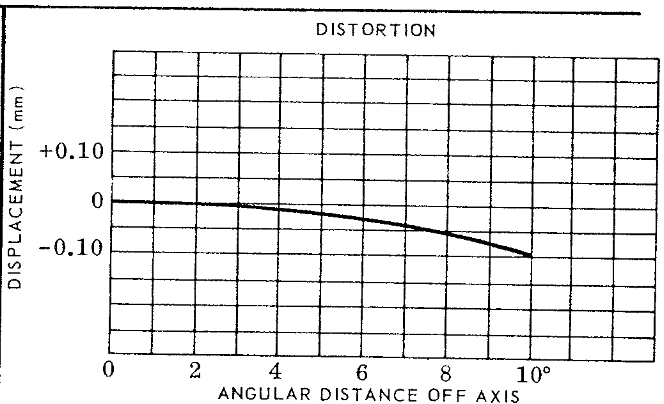
RADIAL																		
TANGENTIAL																		

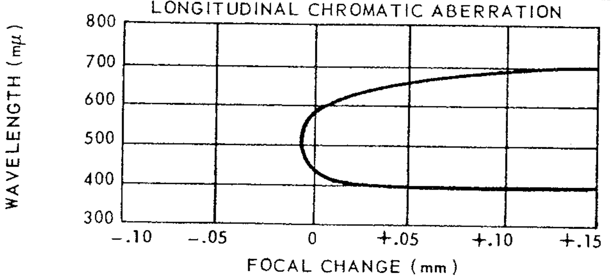
AWAR L/mm

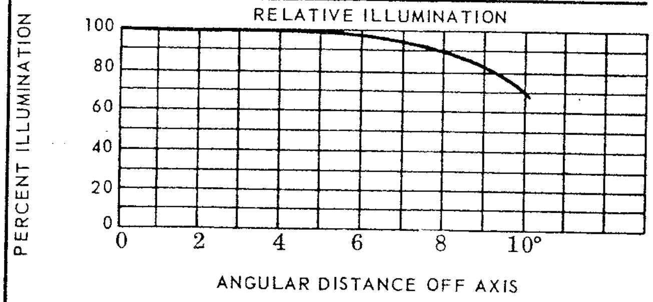
VISUAL TARGET CONTRAST FILTER

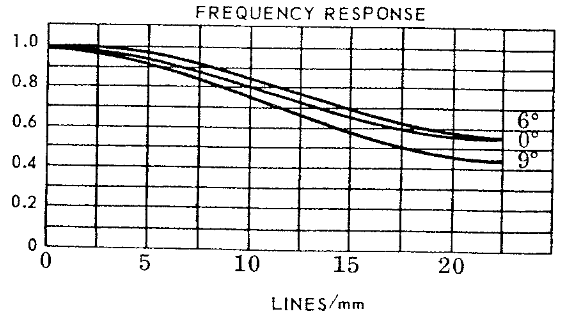
RADIAL																		
TANGENTIAL																		

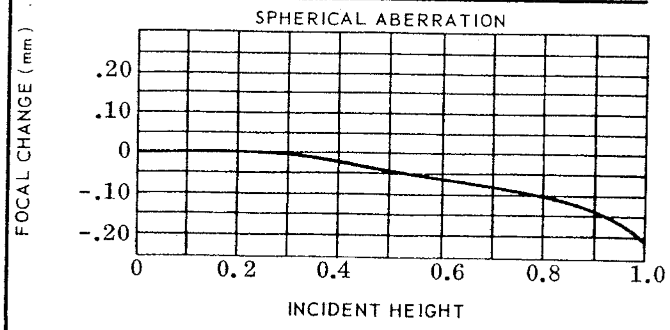












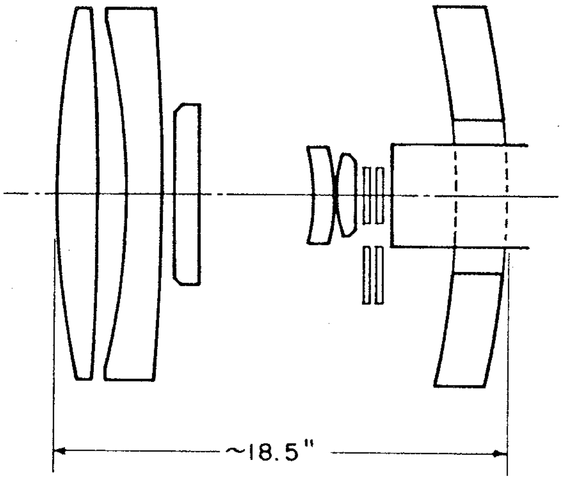
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL–STD–150A) Type I Aerial Reconnaissance	NAME LUX 210 Catadioptric

FOCAL LENGTH 17 in.	RELATIVE APERTURE f/1.2	FORMAT (1.58 in.) 40 mm Tube	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS Current

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 17 in. (432 mm)	TRANSMITTANCE 58%
BACK FOCAL DISTANCE 1.18 in. (30 mm)	COLOR CORRECTION 4000-8000 Å
FRONT VERTEX BACK FOCAL DISTANCE 10.33 (338 mm)	DISTORTION *(Maximum)* 0.036%
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)* 17.4 in.
SEMI–FIELD ANGLE 2.25°	OVERALL LENGTH 18.5 in.
RELATIVE APERTURE f/1.2	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
17 in.	f/1.2	(1.58 in.) 40 mm Tube	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)																		

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

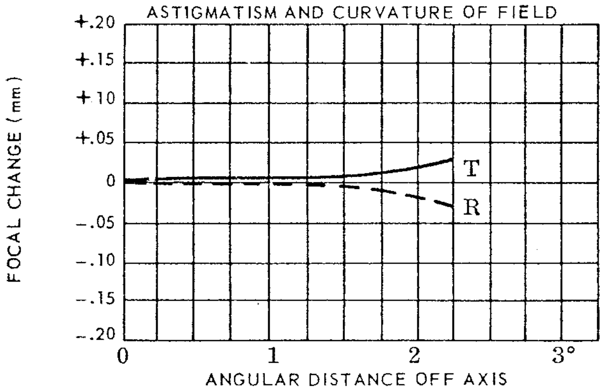
FILM ______ TARGET CONTRAST ______ FILTER ______

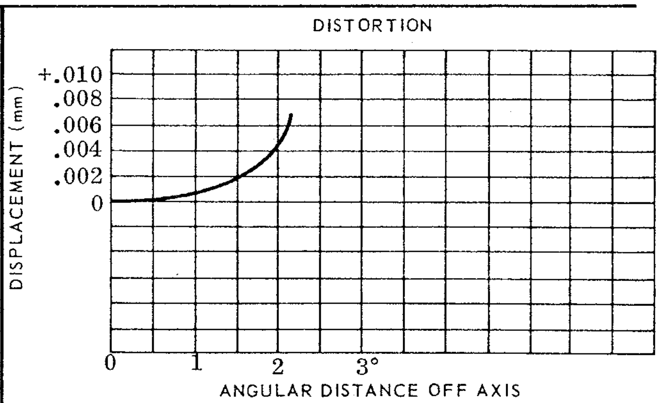
RADIAL																		
TANGENTIAL																		

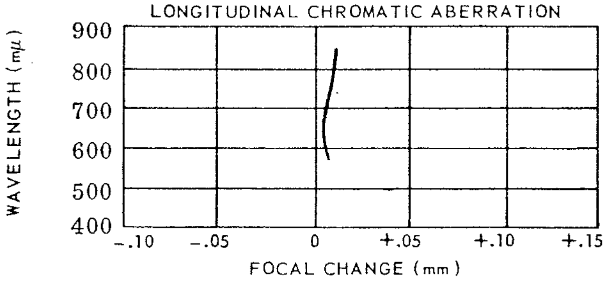
AWAR ______ L/mm

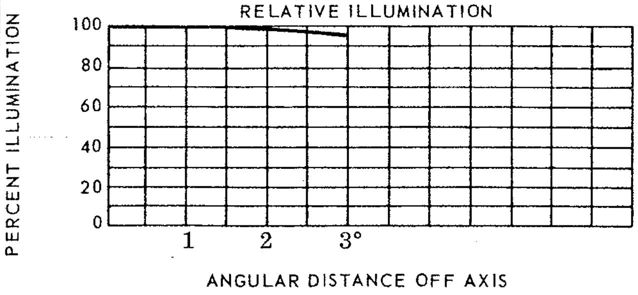
VISUAL ______ TARGET CONTRAST ______ FILTER ______

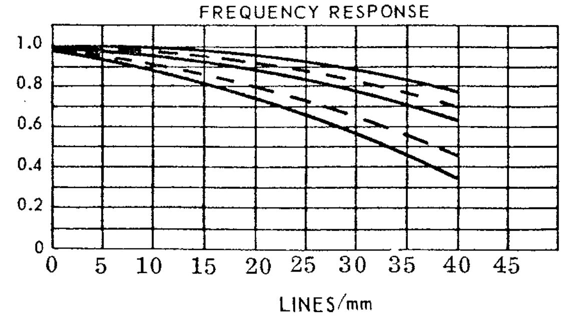
RADIAL																		
TANGENTIAL																		

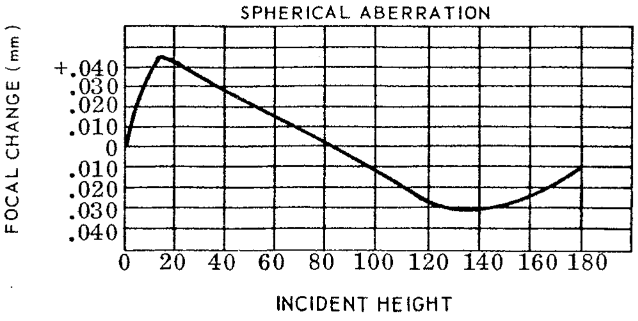

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE

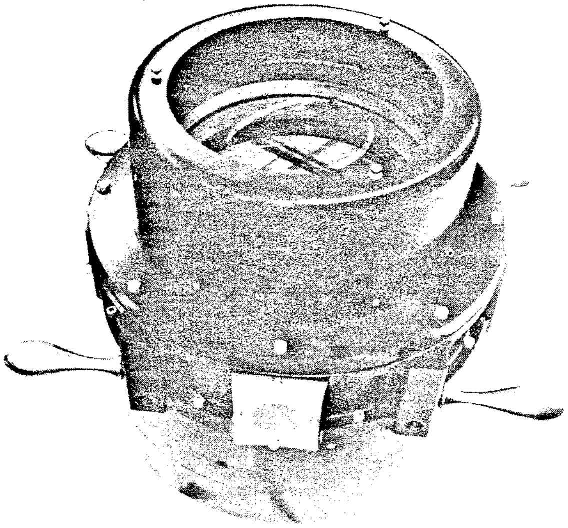

SPHERICAL ABERRATION

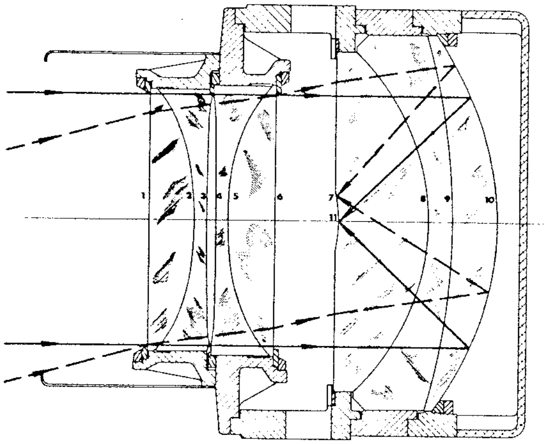
LENS DATA INFORMATION SHEET

(Reference MIL–STD–150A for definition of terms and methods of measurement)

DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Solid Schmidt
FOCAL LENGTH 3.259 in.	RELATIVE APERTURE f/0.384
FORMAT 1.630 in. diameter	MANUFACTURER A. O. Fecker Div. American Optical Co.
STOCK NO.	SPECIFICATION NO.
STATUS Development	

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 3.259 in.	TRANSMITTANCE 54% (T 5.4)
BACK FOCAL DISTANCE 0	COLOR CORRECTION 4861 - 7000Å
FRONT VERTEX BACK FOCAL DISTANCE 16.65 in.	DISTORTION *(Maximum)* 3.06%
FLANGE FOCAL DISTANCE 0	LENS CELL DIAMETER *(Maximum)* 14.4 in.
SEMI-FIELD ANGLE 14.5°	OVERALL LENGTH 12.9 in.
RELATIVE APERTURE f/0.384	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
3.259 in.	f/0.384	1.630 in. diameter	A. O. Fecker Div. American Optical Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	13														

FILM 4404 TARGET CONTRAST High FILTER

AVERAGE RADIAL AND TANGENTIAL	47	14	14	14														

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

AVERAGE RADIAL AND TANGENTIAL																		

AWAR ______ L/mm

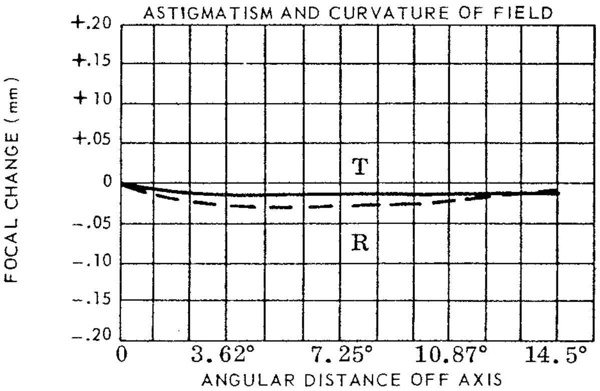
FILM ______ TARGET CONTRAST ______ FILTER ______

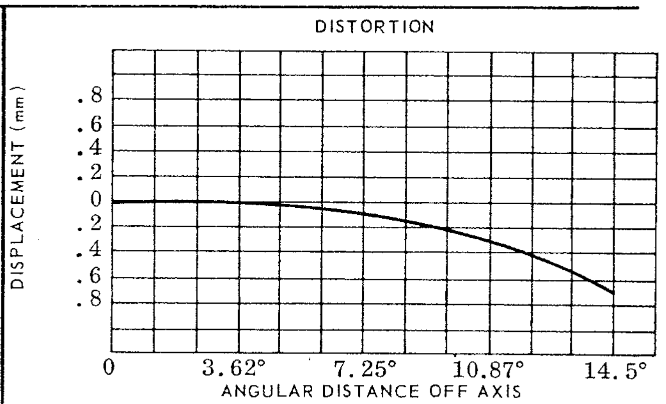
AVERAGE RADIAL AND TANGENTIAL																		

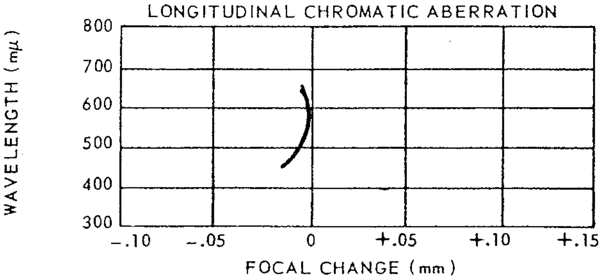
AWAR ______ L/mm

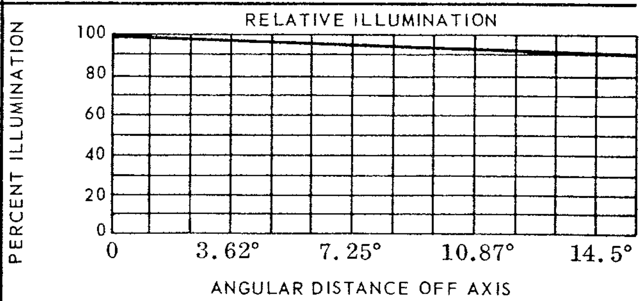
VISUAL ______ TARGET CONTRAST ______ FILTER ______

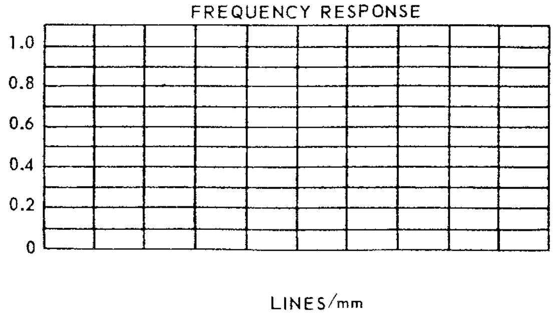
RADIAL																		
TANGENTIAL																		

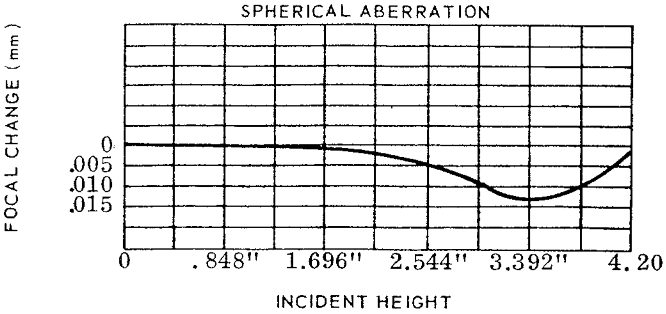

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION